AUTODOC CLUB

How to change rear coil springs on **VW Polo 6N1** – replacement guide

VIDEO TUTORIAL

Important!

This replacement procedure can be used for:
VW Polo III Hatchback (6N1) 1.6, VW Polo III Hatchback (6N1) 1.0, VW Polo III Hatchback (6N1) 1.9 D, VW Polo III Hatchback (6N1) 1.4, VW Polo III Hatchback (6N1) 1.7 SDI, VW Polo III Hatchback (6N1) 1.9 SDI

The steps may slightly vary depending on the car design.

REPLACEMENT: COIL SPRINGS – VW POLO 6N1. LIST OF THE TOOLS YOU'LL NEED:

- Wire brush
- WD-40 spray
- Copper grease
- Torque wrench
- Combination spanner #16
- Combination spanner #17
- Drive socket # 7
- Drive socket # 16
- Drive socket # 17
- Torx bit T20
- Shock absorber socket DD#5,2
- Wheel impact socket #17
- Ratchet wrench
- Tap wrench
- Hydraulic strut spring compressor
- Hydraulic transmission jack
- Wheel chock

BUY TOOLS

Replacement: coil springs – VW Polo 6N1. AUTODOC experts recommend:

- Both coil springs of the rear suspension should be replaced simultaneously.
- The replacement procedure is identical for the left and right coil springs of the rear suspension.
- Please note: all work on the car – VW Polo 6N1 – should be done with the engine switched off.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

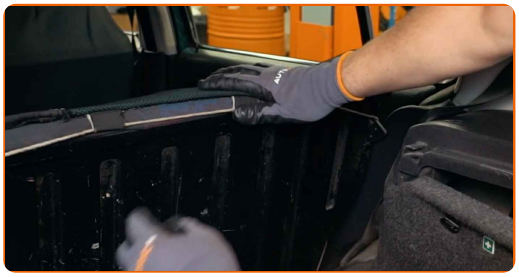
1 Open the boot lid.

2 Move the folding shelf and detach it from the retainers. By doing this, you will get access to the side trim plastic panels.

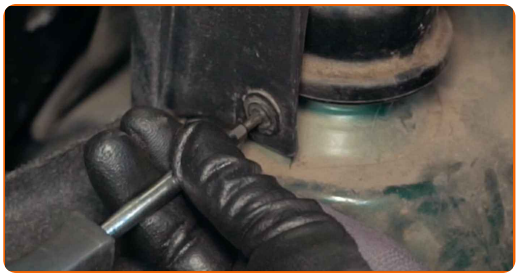
3 Unscrew the fastener of the boot side lining.

4 Detach the boot side lining.

5 Fold down the backrests of the rear seats.

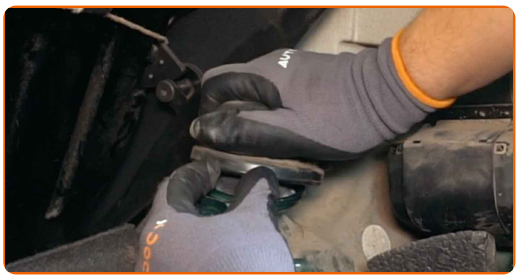


6 Unscrew the fasteners of the side plastic trim panel. Use Torx T20. Use a drive socket #7. Use a ratchet wrench.



7 Remove the side plastic cover.

8 Remove the shock strut mount cap.



9 Clean the upper fastener of the suspension strut mount. Use a wire brush. Use WD-40 spray.

10 Unscrew the top fastener of the suspension strut. Use a combination spanner #16. Use a shock absorber socket DDN°5,2. Use a ratchet wrench.

11 Unscrew the top fastener of the suspension strut. Use a combination spanner #17. Use a shock absorber socket DDN°5,2. Use a ratchet wrench.

12 Secure the wheels with chocks.

13 Loosen the wheel mounting bolts. Use wheel impact socket #17.

14 Raise the rear of the car and secure on supports.

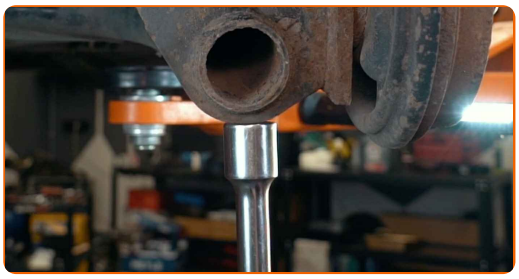
15 Unscrew the wheel bolts.

AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts. VW Polo 6N1

16 Remove the wheel.

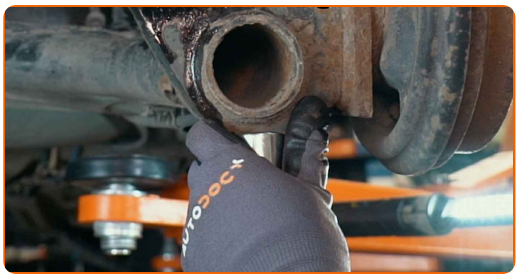
17 Support the rear suspension beam. Use a hydraulic transmission jack.



18 Clean the lower fastener of the suspension strut. Use a wire brush. Use WD-40 spray.

19 Unscrew the lower fasteners of the suspension strut. Use a combination spanner #16. Use a drive socket #16. Use a tap wrench.

20 Remove the support from under the rear axle beam.

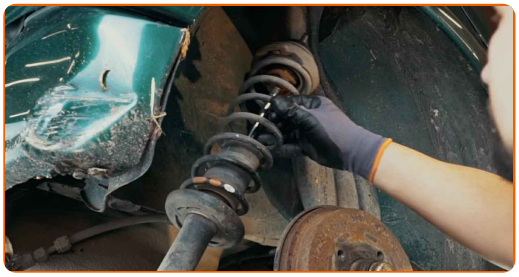


AUTODOC recommends:

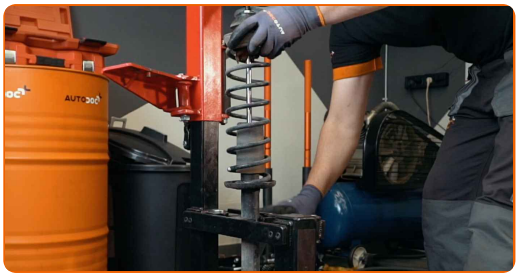
- Replacement: coil springs – VW Polo 6N1. Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

21 Remove the fastening bolt.

22 Remove the suspension strut.



23 Set the shock absorber strut on the spring compressor tool.



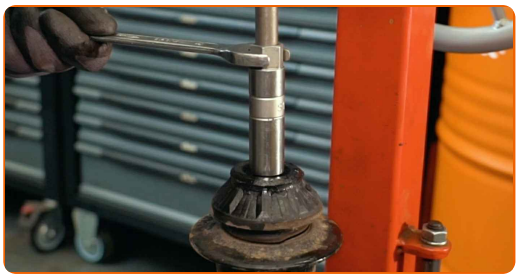
Replacement: coil springs – VW Polo 6N1. Tip from AUTODOC:

- Note that when using a spring compressor, spring coils need to be securely gripped, compressing the spring on the opposite sides.
- Ensure the correct position of the spring in the retainer.
- Make sure that the spring coils tightly entered the lock handles.

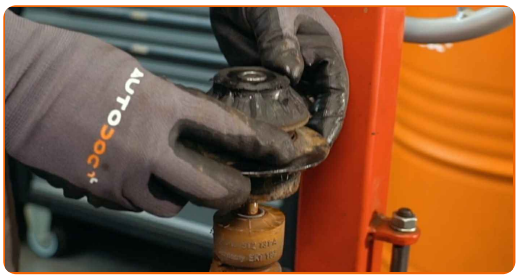
24 Compress the spring.

25 Treat the shock strut rod. Use a wire brush. Use WD-40 spray.

26 Remove the strut piston rod nut. Use a combination spanner #17. Use a shock absorber socket DDN°5,2. Use a ratchet wrench.



27 Remove the top strut mount.

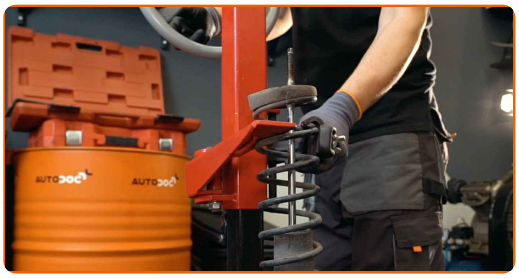


28 Remove the shock absorber dust cap and the bump stop.

AUTODOC recommends:

- Replacement: coil springs – VW Polo 6N1. Carefully inspect the mount, the boot, and the bump stop of the shock absorber. Replace if necessary.

29 Release the coil spring.

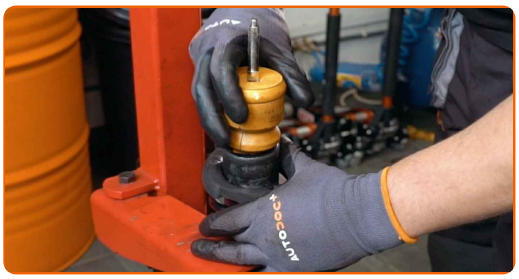


30 Remove the spring.

31 Install the spring on the shock absorber.

32 Compress the spring.

33 Install the dust boot and bump stop on the shock absorber.



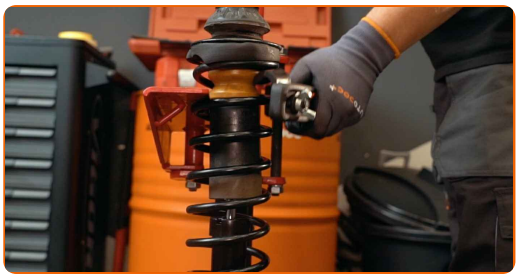
34 Install the upper strut mount and the strut mount bearing.

35 Tighten the shock strut piston rod nut. Use a combination spanner #17. Use a shock absorber socket DDN°5,2. Use a torque wrench. Tighten it to 20 Nm torque.

Replacement: coil springs – VW Polo 6N1. Tip:

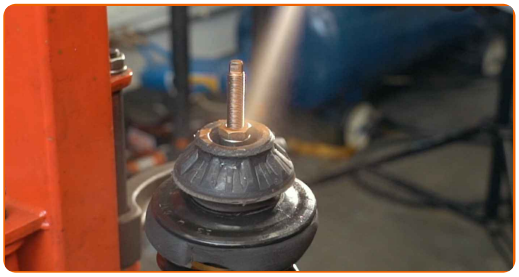
- Check to make sure the spring is positioned correctly. Avoid its misalignment.

36 Decompress the spring.



37 Remove the assembled shock strut.

38 Treat the shock strut rod. Use copper grease.



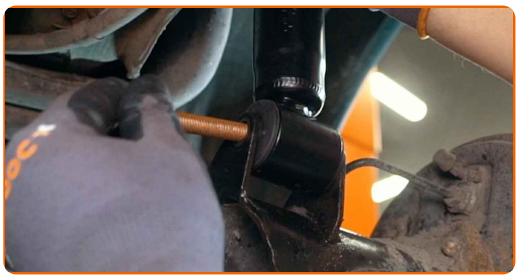
39 Clean the mounting seats of the shock strut. Use a wire brush. Use WD-40 spray.

40 Install the shock strut into the wheel arch.

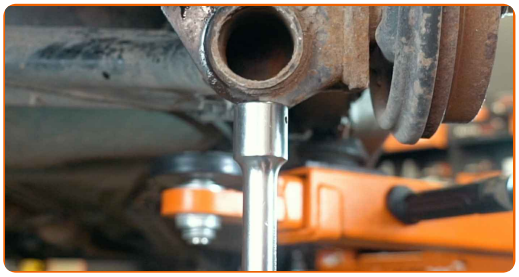
AUTODOC recommends:

- VW Polo 6N1 – To avoid injury, hold the suspension strut while screwing in the fastening bolts.

41 Install the fastening bolt.

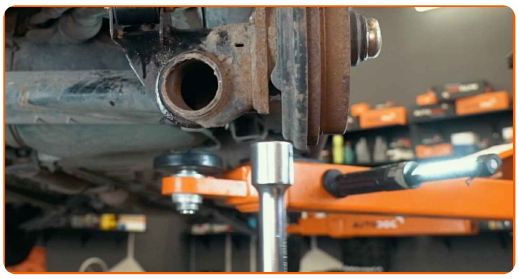


42 Support the rear suspension beam. Use a hydraulic transmission jack.



43 Tighten the lower fasteners of the suspension strut. Use a combination spanner #17. Use a drive socket #17. Use a torque wrench. Tighten it to 55 Nm torque.

44 Remove the mounting from under the rear axle beam.



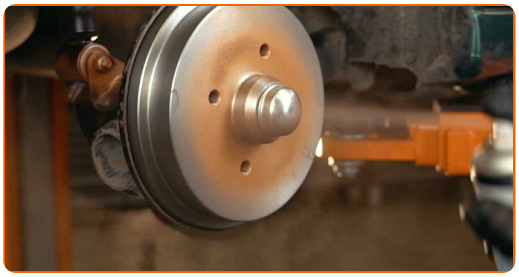
AUTODOC recommends:

- Replacement: coil springs – VW Polo 6N1. Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

45 Treat the shock strut fasteners. Use copper grease.

46 Clean the wheel rim mounting seat. Use a wire brush.

47 Treat the surface where the wheel rim contacts the brake drum. Use copper grease.



48 Install the wheel.

AUTODOC recommends:

- Important! Hold the wheel while screwing in the fastening bolts. VW Polo 6N1

49 Screw in the wheel bolts. Use wheel impact socket #17.

50 Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #17. Use a torque wrench. Tighten it to 110 Nm torque.

51 Remove the jacks and chocks.

52 Tighten the top fasteners of the suspension strut. Use a combination spanner #17. Use a shock absorber socket DDN°5,2. Use a torque wrench. Tighten it to 20 Nm torque.

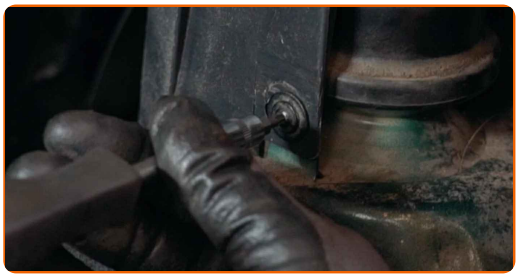
53 Tighten the top fasteners of the suspension strut. Use a combination spanner #16. Use a shock absorber socket DDN°5,2. Use a torque wrench. Tighten it to 20 Nm torque.

54 Treat the upper fastener of the suspension strut mount. Use copper grease.

55 Install the shock strut mount cap.

56 Install the side plastic panel.

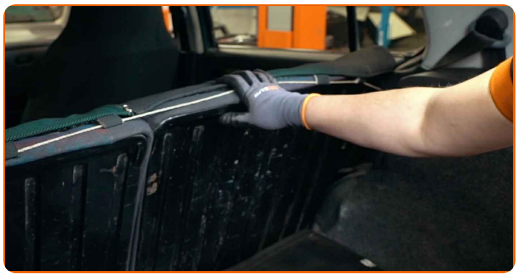
57 Screw the fasteners of the side plastic trim panel. Use Torx T20. Use a drive socket #7. Use a ratchet wrench.



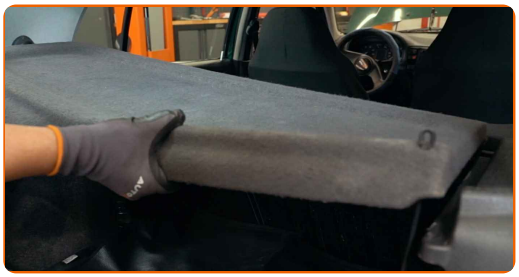
58 Attach the side lining of the boot.

59 Screw in the fastener of the boot side lining.

60 Return the seat to its original position.



61 Install the folding shelf to its mounting seat.



62 Close the lid of the luggage compartment.

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